

THE FOLLOWING LIST INCLUDES NATIVE AND NON-NATIVE PLANT SPECIES COMMONLY AVAILABLE IN PUGET SOUND, AND SUITABLE FOR BIORETENTION CELLS AND SWALES. SITE CHARACTERISTICS AND PROJECT GOALS MAY REQUIRE MODIFICATIONS TO PLANT PROPOSED HERE (PER APPROVAL BY THE ENGINEER).

ZONE 1: AREA OF PERIODIC OR FREQUENT STANDING OR FLOWING WATER. ZONE 1 PLANTS SHOULD ALSO TOLERATE SEASONAL DRY PERIODS UNLESS IRRIGATION IS AVAILABLE.

ZONE 2: AREA PERIODICALLY SATURATED DURING LARGER STORMS. PLANTS LISTED UNDER ZONE 2 MAY ALSO BE APPLICABLE IN ZONE 3.

ZONE 3: AREA WITH DRIER SOILS INFREQUENTLY SATURATED. THIS AREA CAN BE USED TO TRANSITION OR BLEND WITH THE EXISTING LANDSCAPE.

#### ZONE 1 EMERGENT PLANTS

CAREX APERTA / COLUMBIA SEDGE  
CAREX OBNUPTA / SLOUGH SEDGE  
CAREX ROSTRATA / BEAKED SEDGE  
CAREX STIPATA / SAWBEAK SEDGE  
DESCHAMPSIA CAESPITOSA /  
TUFTED HAIRGRASS

ELEOCHARIS PALUSTRIS / COMMON SPIKE RUSH  
JUNCUS EFFUSUS / SOFT RUSH  
JUNCUS ENSIFOLIUS / DAGGER-LEAF RUSH  
JUNCUS TENUIS / SLENDER RUSH  
SCIRPUS ACUTUS / HARDSTEM BULRUSH  
SCIRPUS MICROCARPUS /  
SMALL-FRUITED BULRUSH  
SPARGANIUM SP. / BURREED

#### ZONE 1 SHRUBS

CORNUS SERICEA / RED-OSIER DOGWOOD  
CORNUS S. 'KELSEYI'  
DWARF RED-OSIER DOGWOOD  
SALIX PURPUREA 'NANA'/DWARF ARCTIC WILLOW  
SPIRAEA DOUGLASII / HARDHACK  
SPIRAEA JAPONICA /

#### ZONE 2 HERBACEOUS PLANTS

AQUILEGIA SP. / COLUMBINE  
ARUNCUS SYLVESTER / GOAT'S BEARD  
ATHYRIUM FELIX-FEMINA / LADY FERN  
IRIS DOUGLASIANA / PACIFIC IRIS  
IRIS SIBIRICA / SIBERIAN IRIS

#### ZONE 2 SHRUBS

CORNUS SERICEA / RED-OSIER DOGWOOD  
CORNUS S. 'KELSEYI'  
DWARF RED-OSIER DOGWOOD  
LONICERA INVOLUCRATA / BLACK TWINBERRY  
OEMLARIA CERASIFORMIS / INDIAN PLUM  
SPIRAEA JAPONICA  
SYMPHORICARPOS ALBA / SNOWBERRY

#### ZONE 3 HERBACEOUS PLANTS & GROUNDCOVER

ARCTOSTAPHYLOS SP.  
FESTUCA OVINA 'GLAUCA' / BLUE FESCUE  
GAULTHERIA SHALLON / SALAL  
HEMEROCALIS VARS. / DAYLILY  
HEUCHERA VARS. / ALUMROOT  
LAVANDULA ANGUSTIFOLIA / LAVENDER  
MAHONIA REPENS / CREEPING MAHONIA  
POLYSTICHUM ACROSTICHOIDES / CHRISTMAS  
FERN  
POLYSTICHUM MUNITUM / SWORD FERN  
RUDBECKIA HIRTA / BLACK-EYED SUSAN

#### ZONE 3 SHRUBS

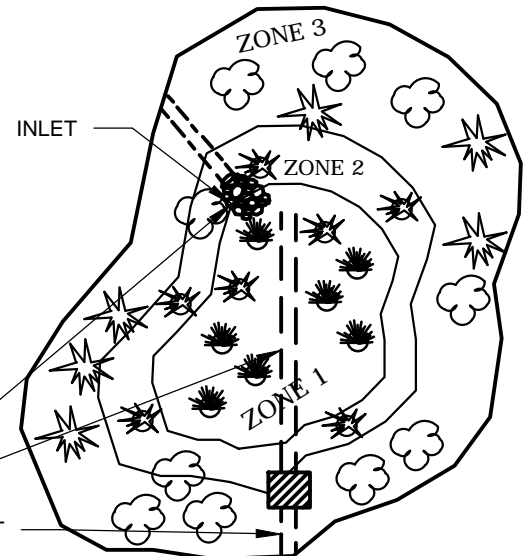
ABELIA X GRANDIFLORA  
ESCALLONIA VARS.  
HOLODISCUS DISCOLOR /  
OCEANSPRAY  
MAHONIA AQUIFOLIUM /  
OREGON GRAPE  
POTENTILLA FRUTICOSA /  
CINQUEFOIL  
RIBES SANGUINEUM /  
RED-FLOWERING CURRANT  
ROSA GYMNOCARPA / BALDHIP  
ROSE  
VACCINIUM OVATUM /  
EVERGREEN HUCKLEBERRY

NOTE: CERTAIN TREES MAY BE  
APROPRIATE FOR USE IN THESE  
FACILITIES AND SHOULD BE  
SELECTED PENDING SITE  
CONDITIONS.

ANGLE CUT PIPE INLET  
PER DETAIL CK-D.30

OPTIONAL UNDERDRAIN

OUTLET



SPECIAL CONSIDERATIONS: IN ADDITION TO SOIL MOISTURE ZONES, PLANTS SHOULD BE SELECTED TO FIT EXPOSURE, AESTHETICS AND SAFETY ISSUES.

EXPOSURE: CAREFUL CONSIDERATION SHOULD BE GIVEN TO SELECTING PLANTS FOR SUN / SHADE EXPOSURE AT THE SITE.

MANY RAIN GARDENS ARE LARGELY SURROUNDED WITH PAVEMENT WHICH INCREASES THE HEAT EFFECTS OF SUN EXPOSURE.

DROUGHT TOLERANCE: THIS LIST EMPHASIZES NATIVE PLANTS, WHICH ARE GENERALLY WELL ADAPTED TO WET WINTER AND DRY SUMMER CONDITIONS. HOWEVER, SEVERAL ZONE 1 PLANTS WILL REQUIRE IRRIGATION. IN GENERAL, ALL PLANTINGS REQUIRE WATER DURING ESTABLISHMENT.

SIGHT CLEARANCE: ENSURE ADEQUATE SIGHT DISTANCE FOR ALL USERS PER CODE.

TREES: TREES MAY NOT BE APPROPRIATE IN ALL BIORETENTION CELLS, AND PLACEMENT MUST BE APPROVED BY THE ENGINEER.

CONSIDER HEIGHT, SPREAD, AND EXTENT OF ROOTS AT MATURITY. USE CAUTION IN TREE SELECTION FOR AREAS WITH UNDER-DRAIN PIPES OR OTHER STRUCTURES. SEE APPENDIX 1: STREET TREES FOR MORE INFORMATION ON TREE SELECTION AND PLACEMENT SUGGESTIONS.

#### NOTES:

USE A MINIMUM OF 3 DIFFERENT SHRUBS AND 3 EMERGENT/GROUNDCOVER SPECIES IN EACH ZONE.

MINIMUM PLANT QUANTITIES ARE 90 PLANTS PER 100 SQ. FT. TREATMENT AREA, INCLUDING 4 SHRUBS MIN.

BIORETENTION CELLS MUST CONTAIN PLANTING ZONES 1, 2 AND 3, BIORETENTION CELLS WITH VERTICAL WALLS MAY NOT CONTAIN ALL THREE PLANTING ZONES.

EMERGENT PLANTS SHALL BE 4 INCH POTS OR 10 C.I.PLUGS, PLACED IN CLUSTERS OF 7-15 PLANTS AT 9 INCH O.C.

SHRUBS SHALL BE 1-GALLON, PLACED IN CLUSTERS OF 3-7.

NO TURF GRASS SHALL BE USED IN BIORETENTION CELLS.

*Gary M. Schimek*

APPROVED BY: GARY M. SCHIMEK  
NATURAL RESOURCES/STORMWATER ENGINEERING MANAGER

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City of Redmond  
WASHINGTON

STANDARD DETAILS

BIORETENTION  
PLANT PALETTE

FILE NAME: SD657.DWG

DETAIL NUMBER: 657